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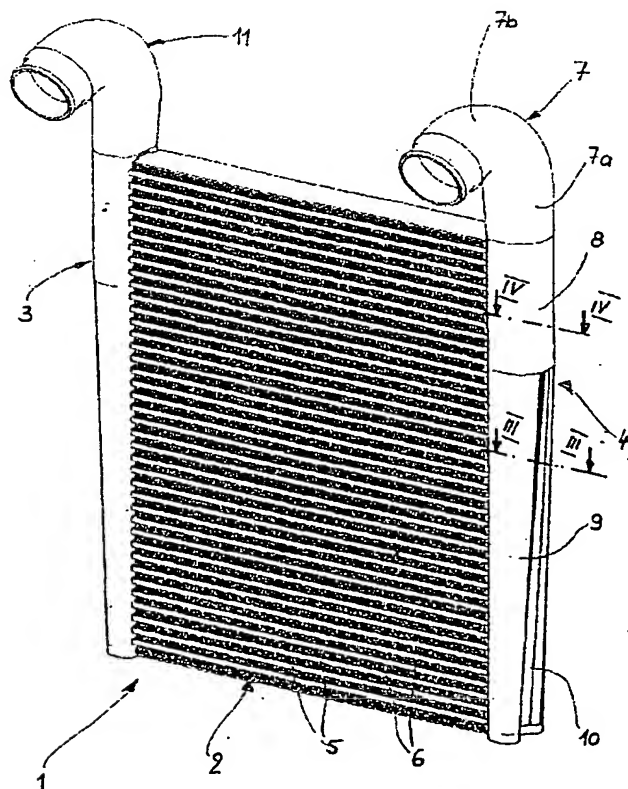
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(54) Title: CHARGE-AIR COOLER FOR MOTOR VEHICLES

(54) Bezeichnung: LADELUFTKÜHLER FÜR KRAFTFAHRZEUGE



(57) Abstract: The invention relates to a heat exchanger for motor vehicles, especially for utility vehicles. Said heat exchanger comprises a heat exchanger unit (2), constituted of tubes (5) having tube ends and ribs (6) disposed between said tubes (5), and collecting tanks (3, 4), disposed on both ends and produced by internal high pressure forming for introducing and discharging a medium. Said collecting tanks (3, 4) comprise bottoms with openings for receiving the tube ends, covers and inlet and outlet tubes (7, 11).

(57) Zusammenfassung: Die Erfindung betrifft einen Wärmeübertrager für Kraftfahrzeuge, insbesondere für Nutzfahrzeuge mit einem aus Rohrenden aufweisenden Rohren (5) und zwischen den Rohren (5) angeordneten Rippen (6) bestehenden Wärmeübertragerblock (2) und beiderseits angeordneten, durch Innen-Hochdruck-Umformung hergestellten Sammelkästen (3, 4) zur Ein- und Ausleitung eines Mediums, wobei die Sammelkästen (3, 4) Böden mit Öffnungen zur Aufnahme der Rohrenden, Deckel sowie Ein- und Auslassstutzen (7, 11) aufweisen.

WO 2005/031239 A1

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